

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-13. (Canceled)

14. (Currently Amended) A composite material member comprising:

a main material composed of a light metal or a light metal alloy which can be molded by casting; and

a secondary material joined to the main material by integrally casting with the main material,

wherein a porous material is arranged on a part of a boundary area or an entire boundary area between the main material and the secondary material,

wherein the light metal is aluminum or magnesium, and the light metal alloy is an alloy including at least one of aluminum and magnesium,

wherein the secondary material is cast iron, iron steel, stainless steel, Fe-Cr-based alloy, Ni-based alloy, or ceramic,

wherein the porous material is composed of a metal fiber ~~and~~ or a foamed metal by which a diffusion joining can be performed with the secondary material, and

wherein in the case in which the porous material has a single layer structure,

the porous material is composed of a single material which has a volume rate that is from 30 to 60% when a plate thickness of a portion of the porous material which contacts the secondary material in a direction spaced from the secondary material is not less than 1 mm and less than 2 mm, and

_____ the porous material has a volume rate that is from 20 to 60% when a plate thickness of a portion of the porous material which contacts the secondary material in a direction spaced from the secondary material is not less than 2 mm, and

in a case in which the porous material has a double layer structure having a first layer proximate to the secondary material and a second layer proximate to the main material,

the first layer of the porous material has a plate thickness of 0.5 mm and a volume rate of 60 ~~or~~ to 70%, and

the second layer of the porous material has a plate thickness of 0.5 mm and a volume rate of 20%.

15. (Previously Presented) The composite material member according to claim 14, wherein the metal fiber is laminated randomly or in an oriented condition to yield a three-dimensional structure.

16. (Previously Presented) The composite material member according to claim 14, wherein the metal fiber has a wire diameter of from a few micrometers to 100 micrometers, and the metal fiber has a grain size of from a few micrometers to 100 micrometers.

17-19. (Canceled)

20. (Currently Amended) A method for producing a composite material member comprising the steps of

preparing a main material composed of a light metal or a light metal alloy which can be molded by casting, and a secondary material composed of a metallic material different from the main material, or a ceramic; and

joining the secondary material to the main material by integrally casting the materials;

wherein a porous material is contacted with the secondary material, the porous material and the secondary material are compressed at a predetermined volume rate and sintered in the contacted condition to join them by diffusion and obtaining a compact, and the compact is joined to the main material by integrally casting them; and

wherein in a case in which the porous material has a single layer structure,
the porous material is composed of a single material which has a volume rate that is from 30 to 60% when a plate thickness of a portion of the porous material which contacts the secondary material in a direction spaced from the secondary material is not less than 1 mm and less than 2 mm, and

_____ the porous material has a volume rate that is from 20 to 60% when a plate thickness of a portion of the porous material which contacts the secondary material in a direction spaced from the secondary material is not less than 2 mm, and

in a case in which the porous material has a double layer structure having a first layer proximate to the secondary material and a second layer proximate to the main material,

the first layer of the porous material has a plate thickness of 0.5 mm and a volume rate of 60 ~~or to~~ 70%, and

the second layer of the porous material has a plate thickness of 0.5 mm and a volume rate of 20%.

21. (Currently Amended) A method for producing a composite material member comprising the steps of

preparing a main material composed of a light metal or a light metal alloy which can be molded by casting, and a secondary material composed of a metallic material different from the main material, or a ceramic; and

joining the secondary material to the main material by integrally casting the materials;

wherein a porous material composed of a fiber is preliminarily compressed at a predetermined volume rate, the compressed fiber and the secondary material are sintered, thereby joining them by diffusion and obtaining a compact, and the compact is joined to the main material by integrally casting them, and

wherein in a case in which the porous material has a single layer structure,

the porous material has a volume rate that is from 30 to 60% when a plate thickness of a portion of the porous material which contacts a secondary material in a direction spaced from the secondary material is not less than 1 mm and less than 2 mm, and

the porous material is composed of a single material which has a volume rate that is from 20 to 60% when a plate thickness of a portion of the porous material which contacts the secondary material in a direction spaced from the secondary material is not less than 2 mm; and

in a case in which the porous material has a double layer structure having a first layer proximate to the secondary material and a second layer proximate to the main material,

the first layer of the porous material has a plate thickness of 0.5 mm and a volume rate of 60 ~~or~~ to 70%, and

the second layer of the porous material has a plate thickness of 0.5 mm and a volume rate of 20%.